

ABSTRACT OF THE DISCLOSURE

A throughflow cylinder made at least partly of fiber-reinforced plastic including glass fibers, aramide fibers, carbon fibers, and/or carbon-reinforced plastic (CRP). The matrix material of the fiber-reinforced plastic includes a material heat resistant at least up to 300°C such
5 as a resin. At least one fiber layer is provided such that the coefficient of thermal expansion α of the fiber-reinforced plastic is lower than that of steel at approximately 300°C and preferably lies in a region of $0 \leq \alpha < 9 \cdot 10^{-6} \cdot 1/\text{Kelvin}$. The manufacture of the fiber-reinforced plastic, for example carbon fiber-reinforced plastic, is such that more than approximately 30%, in particular more than approximately 50% and preferably more than approximately 70% of the fibers are
10 oriented at least substantially in the peripheral direction.